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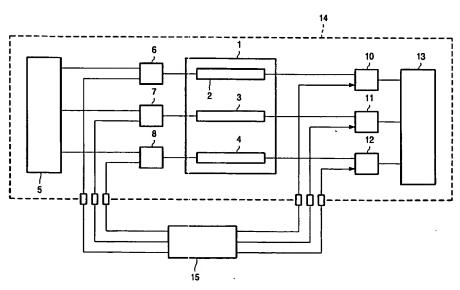
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(54) Title: INTEGRATED CIRCUIT WITH SELF-TESTING CIRCUIT



(57) Abstract: An integrated circuit (14) with an application circuit (1) to be tested and a self-testing circuit (5-13), which is provided for testing the application circuit (1) and generates pseudorandom test patterns, which can be transformed, by means of first logic gates (6, 7, 8) and signals externally fed to said gates, into deterministic test vectors, which are fed to the application circuit (1) for testing purposes, wherein the output signals occurring through the application circuit (1) as a function of the test patterns are evaluated by means of a signature register (13), wherein, by means of second logic gates (10, 11, 12) and signals fed to said gates, those bits of the output signals of the application circuit (1) which, due to the circuit structure of application circuit (1), have undefined states, are blocked during testing.



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## INTERNATIONAL SEARCH REPORT

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